AMENDMENTS

In the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application.

 (Currently Amended) An automatic releasing-type rolling head for forming a tapered thread on a pipe, comprising:

a cylindrical housing [[(30)]] with a front closure and a rear elosure;

a plurality of shaft bearing plates (33) which that are configured to be slidably supported supported in a plurality of guide grooves [[(36)]] radially provided on inner surfaces of the front and the rear closures of the housing [[(30)]], said shaft bearing plates being provided on their outer surfaces in the radial directions with a plurality of oblique surfaces [[(33b)]];

a <u>plurality of thread rolling rollers [[(35)]] configured so as to be</u> rotatably supported by the shaft bearing plates [[(33)]] through a <u>plurality of roller shafts [[(34)]]</u>;

a cam ring (31) which configured to rotates rotate in the housing [[(30)]] and [[has]] having a plurality of cam oblique surfaces [[(31a)]] configured so as to be opposed to the oblique surfaces [[(33b)]] of the shaft bearing plates [[(33)]];

a lever (44) which that is configured to abuts abut, at its oblique surface, against a cam member [[(45)]], the lever being configured for to prevent preventing a movement thereof of the cam member in association with the cam ring [[(31)]]; and

an abutment member [[(41)]] which is configured so as to be pressed and moved by a thread-rolled pipe.

wherein the rolling load [[which]] that acts on the rolling rollers [[(35)]] during a threadrolling operation is configured so as to be reduced due to contact friction in the course of transference of when transferring the rolling load to the cam oblique surface [[(45a)]] of the cam member [[(45)]] and to the oblique surface of the lever [[(44)]];

wherein when the to-be-rolled pipe is configured to be thread-rolled to a predetermined length, the oblique surface of the lever [[(44)]] is configured to be gradually moved away from the cam member [[(45)]] moving in association with the cam ring [[(31)]], in association with the movement of the abutment member [[(41)]];

whereby wherein the cam ring [[(31)]] is <u>configured to rotated rotate</u> due to the rolling load so that the shaft bearing plates [[(33)]] and the thread rolling rollers [[(35)]] are <u>configured to [[moved]] move</u> in <u>a radial direction</u> and <u>an outward direction directions</u> and are <u>configured for released releasing</u> from the to-be-rolled pipe.

 (Currently Amended) [[An]] <u>The</u> automatic releasing-type tapered thread rolling head as set forth in of claim 1.

wherein a plurality of radial guide grooves [[(36)]], whose bottoms are <u>configured</u>
parallel to a plane perpendicular to the axis, are provided in the inner surface of the front closure
[[(30a)]] of the housing;

<u>a plurality of guide grooves [[(36)]]</u> identical in dimension to the guide grooves [[(36)]] of the front closure [[(30a)]], are provided in the inner surface of the rear closure [[(30e)]];

wherein the shaft bearing plates [[(33)]] are provided with a <u>plurality of</u> shaft bearing holes [[(33a)]] for supporting the roller shafts [[(34)]];

wherein the roller shafts [[which]] are configured for being slidably fitted in the guide grooves [[(36)]] of the front closure [[(30a)]] and the rear closure [[(30c)]] and [[which]] are configured for being inserted in the center holes of the discontinuous circumferential groove type rolling rollers [[(35),]];

wherein said shaft bearing holes are configured for being adapted to support the discontinuous circumferential groove type rolling rollers [[(35),]];

wherein said shaft bearing holes are configured so as to be deviated in the direction of the width of the guide grooves [[(36)]] of the front closure [[(30a)]] or the rear closure [[(30c)]]; -in a position and wherein said shaft bearing holes are configured at an angle corresponding to the lead angle of the thread of the to-be-rolled pipe.

[[An]] The automatic releasing-type tapered thread rolling head as-set-forth-in of claim

wherein the shaft bearing plates [[(33)]] are configured to rotatably support the thread rolling rollers [[(35)]]; are provided with

wherein said shaft bearing plates have projections [[(33c)]], integral therewith, that are configured to extend in the axial direction of the thread rolling rollers, in the vicinity of the outer oblique surfaces [[(33b)]] that are brought into contact with the cam oblique surfaces [[(31a)]] of the cam ring [[(31)]];

wherein the surfaces of the projections [[(33c)]] that are located opposite to the oblique surfaces [[(33b)]] are substantially configured in parallel with the oblique surfaces [[(33b)]] and are configured are provided, at the lower portions, [[with]] to have surfaces [[(33d)]] that are configured in parallel with the width direction of the shaft bearing plates [[(33d)]];

wherein pins [[(38)]] are provided in the vicinity of the cam oblique surfaces [[(31a)]] of the cam ring [[(31)]] so that the projections [[(33c)]] ean-be are configured to be engaged by the pins [[(38)]].

[[An]] The automatic releasing-type tapered thread rolling head as set forth in of claim

wherein the portion of the abutment member [[(41)]] pressed and moved by the threadrolled pipe [[that]] is configured so as to abut against the to-be-rolled pipe,

wherein the portion of the abutment member has a circular contour [[which]] configured to enables enable the abutment member to be in contact [[with]] the front end surface of the to-be-rolled pipe substantially over the entire periphery.

[[An]] The automatic releasing-type tapered thread rolling head as set forth of in claim

wherein a <u>first set of</u> foreign matter discharge holes [[(37b)]] are <u>provided is configured</u> so as to be in the vicinity of the cam oblique surfaces of the cam ring [[(31)]]:

wherein the first set of foreign matter discharge holes are configured so as to that rotates rotate in the housing [[(30)]]; [[and]]

wherein the first set of foreign matter discharge holes [[that]] are configured for being brought into contact with the oblique heads of the shaft bearing plates [[(33)]] for supporting to support the thread rolling rollers; [[(35)]] and

wherein the second set of foreign matter discharge holes [[(37a)]], which are configured to be connected to [[the]] the first set of foreign matter discharge holes [[(37b)]] of the cam ring are provided configured [[in]] inside the housing [[(30)]].

 [[An]] The automatic open type tapered thread rolling head as set forth in of claim 1, further comprising:

a buffer arm (48) which that is configured for [[can]] receive receiving the abutment member [[(41)]] or a member moving therewith,

wherein the receiving of the abutment is configured at an at an appropriate distance in [[the]] an axial direction; [[,]]

wherein when the to-be-rolled pipe is configured for thread-rolled thread rolling to a predetermined length by the thread rolling rollers [[(35)]] and the thread rolling rollers [[(35)]] are configured for [[moved]] moving in the outward and radial directions, the thread rollers [[and]] are configured for released release from the pipe; [[,]]

wherein said buffer arm [[(48)]] is configured for detached detaching; [[so as]]

wherein said buffer arm is configured for preventing not to damage to an apparatus body if the to-be-rolled pipe continues moving in the axial direction, due to failure of the movement of the thread rolling rollers [[(35)]] away from the to-be-rolled pipe for some reason.

7. [[An]] The automatic open type tapered thread rolling head as set forth in of claim 1, wherein a scraper [[(59)]] for cutting the outer diameter portion of the to-be-rolled pipe is configured to be movably provided at an insertion opening of the housing [[(30)]] for the to-be-

rolled pipe, said scraper [[(59)]] being provided with a cutting blade [[(59b)]] and an inner diameter portion [[(59d)]], for guiding the to-be-rolled pipe, which are integrally molded.

..